Project Title: Gait retraining for people with knee osteoarthritis: a randomised controlled trial	**Code: FHS9**
Host School / Institute: Faculty of Health Sciences	**Address:** Sydney Biomechanics Laboratory and Sydney Performance Laboratory, Cumberland Campus, 75 East Street, Lidcombe
Certificates & Clearances required: No	
Primary Supervisor: Dr Milena Simic	
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Co-Supervisor/team: This project involves assessments in our state-of-the-art Sydney Biomechanics Laboratory and training with a clinician at the Sydney Performance Laboratory. The summer scholarship student will work with a team of PhD students and academics on a range of tasks, including recruitment, evaluations, data entry, assistance with participant therapy and research presentation.	
Project Type: Clinical; Laboratory based	
Project Category: Physiotherapy; Rehabilitation	
Skills / Attributes of a successful student: Analytical and communicative; Interest in improving patient care; Interested in motion analysis; use of measurement equipment.	
Project Keywords: Biomechanics; Osteoarthritis; Knee; Motion; 3D	

Project Description:

We are conducting a clinical trial to evaluate the effects of three novel interventions, which are walking (gait) strategies for people with knee osteoarthritis. The walking strategies involve either walking with the foot pointing in a little more than usual (toe-in gait), walking with the foot pointing out a little more than usual (toe-out gait) or walking with a more upright trunk (postural re-education gait). This study aims to evaluate which intervention is most acceptable and effective in reducing pain for people with knee osteoarthritis.

Research involvement:
Participants are asked to attend weekly training sessions with one of our clinicians at the Sydney Performance Laboratory to learn how to perform the new walking strategy. This will involve provision of feedback about the style of walking using specialised equipment. All assessments are conducted at the state-of-the-art Sydney Biomechanics Laboratory.

Summer scholar involvement:
Summer scholars will have the opportunity to assist with all aspects of the trail, including exposure to 3D motion analysis, assistance and use of equipment for measurement of motion (for therapy as well as assessments), data entry, liaising with participants, and presentation at meetings.